

Appl. No. 10/825,086
Amdt. Dated July 8, 2008
Reply to Office Action of April 11, 2008

Attorney Docket No. 81716.0123
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-24. (Canceled)

25. (Currently amended) A microchemical chip comprising a substrate provided with a channel through which a fluid to be treated flows and a plurality of supply portions connected to the channel and from which a plurality of fluids to be treated are poured into the channel, respectively, wherein the plurality of fluids to be treated are poured from the plurality of supply portions into the channel, respectively, and the plurality of fluids poured are merged and subjected to a predetermined treatment,

wherein a vibrating element is provided on a surface of the channel in a vicinity of a position in which the channel is connected to the supply portion.

26. (Original) The microchemical chip of claim 25, wherein the substrate comprises a substrate main body in which a groove portion is formed and a covering member provided such that the groove portion is covered, and the channel is formed by covering the groove portion formed in the substrate main body with the covering member, and

the vibrating element is provided in the covering member at a position corresponding to an inner surface of a channel portion in a vicinity of a position in which the supply portions are connected on a downstream side in a flowing direction of a fluid to be treated from that position.

27. (Original) The microchemical chip of claim 25, wherein the substrate further comprises a collection portion connected to the channel and from which a treated fluid is drawn to the outside, and

wherein the vibrating element is provided on the downstream side in a flowing direction of the fluid to be treated from a position in which the supply portions are connected and on an upstream side in the flowing direction of the fluid to be treated from a position in which the collection portion is connected, and

the plurality of fluids to be treated are poured from the plurality of supply portions into the channel, respectively, and the plurality of fluids poured are merged and subjected to the predetermined treatment, and then the treated fluid is drawn from the collection portion to the outside.

28. (Original) The microchemical chip of claim 26, wherein the substrate comprises a treatment portion in which the predetermined treatment is performed to the merged fluids on the downstream side in the flowing direction of the fluid to be treated from a position in which the supply portions are connected to the channel, and

wherein the vibrating element is provided on the downstream side in the flowing direction of the fluid to be treated from the position in which the supply portions are connected and on an upstream side in the flowing direction of the fluid to be treated from the treatment portion.

29. (Original) The microchemical chip of claim 27, wherein the substrate comprises a treatment portion in which the predetermined treatment is performed to the merged fluids on the downstream side in the flowing direction of the fluid to be

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treated from a position in which the supply portions are connected to the channel, and

wherein the vibrating element is provided on the downstream side in the flowing direction of the fluid to be treated from the position in which the supply portions are connected and on an upstream side in the flowing direction of the fluid to be treated from the treatment portion.

30-39. (Canceled)

40. (New) The microchemical chip of claim 26, wherein a through-hole is formed at a position of a channel portion in the covering member and the vibrating element is attached to the inner surface of the covering member such that the through-hole is covered.

41. (New) The microchemical chip of claim 27, wherein the through-hole is a long pore formed along the flowing direction of the channel.